

APR. 24. 2003 3:45PM

NO. 889 P. 20/20

PTO/SB/08A (10-98)

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete If Known	
				Application Number	09/742,885
				Filing Date	12/21/2000
				First Named Inventor	Rudolph W. Frey
				Group Art Unit	3739
				Examiner Name	
				Attorney Docket Number	24430.8
Sheet	2	of	2		

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ²	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office	Number ⁴	Kind Code ⁵ (If known)				
	BA	DT	24 60 896	A1	Messerschmitt-Bölkow Blohm GmbH	Apr. 29, 1976		
	BB	EP	0 451 869	A2	L'Eperance	Aug. 21, 1985		
	BC	WO	95/01860		Meditec Reinhardt Thyzel GmbH	May 9, 1995		
	BD	WO	87/06476		Institut National De La Santé Et De La Recherche Medicale (Inserm)	Nov. 5, 1987		
	BE	WO	02/24009		Humphrey Instruments, Inc.	Dec. 10, 1992		
	BF	WO	03/46524		Phoenix Laser Systems, Inc.	Sep. 2, 1993		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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	BG	PULIANTO et al. High Speed Photography of Excimer Laser Ablation of the Cornea, Arch Ophthalmol., Vol. 105, Sept. 1997, pages 1255-1259.	
	BH	GARETIS et al. Solid State Ultraviolet Laser Ablation of the Cornea and Synthetic Collagen Lenses, Vol. 105, Sept. 1997, Pages 656-662.	

Examiner Signature		Date Considered	Apr 30, 2003
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NO. 889 P. 16/20

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				Group Art Unit	3739
				Examiner Name	
Sheet	6	of	9	Attorney Docket Number	24430.8

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ER		PULLIANTO, et al., "High-Speed Photography of Excimer Laser Ablation of the Cornea," <i>Arch Ophthalmol</i> , Vol. 105, Sept. 1987, pages 1255-1259.		
ES		LIANG, et al., "Objective Measurement of Wave Aberrations of the Human Eye with the Use of a Hartmann-Shack Wave-front Sensor," <i>J. Opt. Soc. Am. A</i> , Vol. 11, No. 7, July 1994, pages 1949-1957.		
ET		WU, "Supernormal Vision, a Focus on Adaptive Optics Improves Images of the Eye and Boosts Vision," <i>Science News</i> , Vol. 152, November 15, 1997, pages 312-313.		
EU		DREHER, et al., "Active Optical Depth Resolution Improvement of the Laser Tomographic Scanner," <i>Applied Optics</i> , Vol. 28, No. 4, February 1989, pages 804-808.		
EV		GEARY, "Appendix 1.1 - Basic Geometrical Optics, Chapter 6 - Indirect Wavefront Measurement, Part II," and "Chapter 7 - Wavefront Sensor Characterization & Calibration," <i>Introduction to Wavefront Sensors</i> , May 1995, pages 10-11, 89-103, and 105-109.		
EW		"Scientists Snap Sharpest Pictures of Living Human Retina," http://www.rochester.edu/pr/releases/opt/will.htm , October 3, 1994.		
EX		THE APPLIED OPTICS GROUP, "Shack Hartmann Sensors," http://op.ph.ic.ac.uk/ao/sh_sense.html , June 4, 1996, pages 1-3.		
EY		THE APPLIED OPTICS GROUP, "Results from UKIRT," http://op.ph.ic.ac.uk/ao/ukirt_res.html , February 22, 1995, pages 1-2.		
EZ		THE APPLIED OPTICS GROUP, "Astronomical Imaging Through Turbulence: An Overview," http://op.ph.ic.ac.uk/ao/overview.html , June 4, 1996, pages 1-4.		
FA		ESA, WFS, "Wave Front Sensor," http://esapub.esrin.esa.it/pointtotest/test251.html , May 23, 1997, pages 1-2.		
FB		WILLIAMS, "Limits of Human Vision," http://www.cvs.rochester.edu/people/d_williams/d_williams.html , December 30, 1998, pages 1-4.		
FC		"Extensions of Low-Cost Adaptive Optics: Imaging of Space-Objects, the Retina, and Power Projection," Industrial Sensors and Actuators, dated Dec. 1993 (actual publication date, if any, unknown), pp. 1, 10, and 15.		

Examiner Signature	<i>David Shaw</i>	Date Considered	April 30, 2003
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Sheet	7	of	9	Attorney Docket Number	24430.8

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dm	FD	LABJUH, et al., "Astigmatismuskorrektur durch Laserthermokeratoplastik (LTK) - Ein Ansatz für die Korrektur des hohen Astigmatismus nach Perforierender Keratoplastik," <i>Corneologia</i> 18D (1996), pp. 175-183. —		
dm	FE	COHEN, et al., "Assessment of the Power and Height of Radial Aspheres Reported by a Computer-assisted Keratoscope," <i>American Journal of Ophthalmology</i> , Vol. 119, Vol. No. 6, Nov. 30, 1994, pp. 723-732. —		
dm	FF	CORBETT, et al., "The Topography of the Normal Cornea," <i>Eur J Implant Ref Surg.</i> , Vol. 6, Oct., 1994, pp. 286-297. —		
dm	FG	MAEDER, et al., "Accurate 3D Corneal Surface Measurement Using an Automated Mapping Approach," <i>SPIE</i> , Vol. 2434, 1995, pp. 328-334. —		
dm	FH	SALMON, et al., "Comparison of Elevation, Curvature, and Power Descriptors for Corneal Topographic Mapping," <i>Optometry & Vision Science</i> , Vol. 72, No. 11, 1995, pp. 800-808. —		
dm	FI	PAVLOPOULOS, et al., "The Effect of Artificial Tears on Computer-assisted Corneal Topography in Normal Eyes and After Penetrating Keratoplasty," <i>American Journal of Ophthalmology</i> , Vol. 119, June 1995, pp. 712-722. —		
dm	FJ	ROBERTS, "Characterization of the Inherent Error in a Spherically-Biased Corneal Topography System in Mapping a Radially Aspheric Surface," <i>Journal of Refractive & Corneal Surgery</i> , Vol. 10, March/April 1994, pp. 103-111. —		
dm	FK	THORNTON, "Clinical Evaluation of Corneal Topography," <i>J. Cataract Refract. Surg.</i> , Vol. 19, Supplement 1993, pp. 198-202. —		
dm	FL	RABINOWITZ, et al., "Computer-assisted Corneal Topography in Keratoconus," <i>Refractive & Corneal Surgery</i> , Vol. 5, Nov./Dec. 1989, pp. 400-408. —		
dm	FM	WILSON, et al., "Accuracy and Precision of the Corneal Analysis System and the Topographic Modeling System," <i>Cornea</i> , Vol. 11, No. 1, 1992, pp. 28-35. —		
dm	FN	BOGAN, et al., "Computer-assisted Videokeratography of Corneal Topography After Radial Keratotomy," <i>Arch. Ophthalmol.</i> , Vol. 109, June 1991, pp. 834-841. —		
dm	FO	BOGAN, et al., "Classification of Normal Corneal Topography Based on Computer-assisted Videokeratography," <i>Arch. Ophthalmol.</i> , Vol. 108, July 1990, pp. 945-949. —		

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dm	FP	REIDY, et al., "The Corneal Topography of Epikeratophakia," <i>Refractive & Corneal Surgery</i> , Vol. 6, Jan./Feb. 1990, pp. 26-31. —	
dm	FQ	DINGELDEIN, et al., "The Topography of Normal Corneas," <i>Arch. Ophthalmol.</i> , Vol. 107, April 1989, pp. 512-518. —	
dm	FR	McDONNELL, et al., "Topographic Analysis and Visual Acuity After Radial Keratotomy," <i>American Journal of Ophthalmology</i> , Vol. 106, No. 6, December 1988, pp. 692-695. —	
dm	FS	McDONNELL, et al., "Corneal Topographic Changes After Radial Keratotomy," <i>Ophthalmology</i> , Vol. 96, No. 1, January 1989, pp. 45-49.	
dm	FT	KIELY, et al., "The Mean Shape of the Human Cornea," <i>Optica Acta</i> , Vol. 29, No. 8, 1982, pp. 1027-1040. —	
dm	FU	BAFNA, et al., "Corneal Power Calculated by the Paraxial Formula and Snell's Law in Normal Corneas," <i>Investigative Ophthalmology & Visual Science</i> , Vol. 37, No. 3, February 1996, Poster No. 2589. —	
dm	FV	MATALLANA, et al., "3-D Video Corneal Topography True Elevation Mapping," <i>Investigative Ophthalmology & Visual Science</i> , Vol. 37, No. 3, February 1996, Poster No. 2590. —	
dm	FW	AOYAMA, et al., "Quantitative Evaluation of Corneal Astigmatism Using Computer Corneal Topography and Newly Developed Software," <i>Investigative Ophthalmology & Visual Science</i> , Vol. 37, No. 3, February 1996, Poster No. 2591.	
dm	FX	CELIKOL, et al., "Neural Network Analysis of Videokeratography Following Excimer Laser Photorefractive Keratectomy," <i>Investigative Ophthalmology & Visual Science</i> , Vol. 37, No. 3, February 1996, Poster No. 2592.	
dm	FY	WALSH, et al., "Objective Technique for the Determination of Monochromatic Aberrations of the Human Eye," <i>J. Opt. Soc. Am. A</i> , Vol. 1, No. 9, Sept. 1984, pp. 987-992. —	
dm	FZ	WILLIAMS, et al., "Adaptive Optics for High Resolution Retinal Imaging," <i>Investigative Ophthalmology & Visual Science</i> , Vol. 37, No. 3, February 1996, p. 1055.	

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Dr	GA	CHARMAN, "Wavefront Aberration of the Eye: A Review," <i>Optometry and Vision Science</i> , Vol. 68, No. 8, pp. 574-583. —	
Dr	GB	BARTSCH, et al., "Resolution Improvement in Confocal Scanning Laser Tomography of the Human Fundus," <i>1994 Technical Digest Series</i> , Vol. 2 (Optical Society of America, Washington D. C.), 1994, pp. 134-137. —	
Dr	GC	DREHER, et al., "Active Optical Depth Resolution Improvement of the Laser Tomographic Scanner," <i>Applied Optics</i> , Vol. 28, No. 4, Feb. 1989, pp. 804-808. —	
Dr	GD	BILLE, et al., "Scanning Laser Tomography of the Living Human Eye," <i>Noninvasive Diagnostic Techniques in Ophthalmology</i> , Chapter 28, edited by Masters, B.R., Springer-Verlag, 1990, pp. 528-547. —	
Dr	GE	LIANG, JUNZHONG, <i>A New Method to Precisely Measure the Wave Aberrations of the Human Eye with a Hartmann-Shack Wavefront Sensor</i> , Inaugural Dissertation, December 1991, pages 1-115, Heidelberg, Germany. —	
Dr	GF	BILLE, et al., "Imaging of the Retina by Scanning Laser Tomography," <i>New Methods in Microscopy and Low Light Imaging</i> , Vol. 1161, 1989, pages 417-425. —	
Dr	GG	CUBALCHINI, "Modal Wave-front Estimation from Phase Derivative Measurements," <i>J. Opt. Soc. Am.</i> , Vol. 69, 1979, pages 972-977. —	
Dr	GH	"Modal Wave-front Estimation from Phase Derivative Measurements," Referenced in Bille, U.S. Patent No. 5,062,702 IDS, 1990. —	
Dr	GI	FREISCHLAD, et al., "Modal Estimation of a Wave Front from Difference Measurements Using the Discrete Fourier Transform," <i>J. Opt. Soc. Am.</i> , Vol. 3, No. 11, November 1986, pages 1852-1861. —	
Dr	GJ	KLYCE, et al., "Imaging, Reconstruction, and Display of Corneal Topography," <i>New Methods in Microscopy and Low Light Imaging</i> , Vol. 1161, 1989, pages 409-416. —	
Dr	GK	BAKER, "Optical Surface Testing of the Cornea," <i>New Methods in Microscopy and Low Light Imaging</i> , Vol. 1161, 1989, pages 427-437. —	
Dr	GL	SOUTHWELL, "Wave-front Estimation from Wave-front Slope Measurements," <i>J. Opt. Soc. Am.</i> , Vol. 70, No. 8, August 1980, pages 998-1005. —	

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